Data transmission system for programmable control units

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Abstract

In a data transmission system in which programmable control units (PC) have a data connection, each programmable control unit (PC) has data connection units (4, 6) which form loops, and also a switching unit (7) to switch over the data connection units, the switching unit continuously monitoring the respective data connection units in such a way that, if a fault occurs in any of the loops, the switching unit selects the data transmission unit of a different, fault-free loop, whereby the data transmission is continued.

Query/Command : ll max

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AN - 1989-186013 [26]

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TI - Data transmission system for programmable controls - has data transmission unit in each station forming loop monitored for faults to switch to faultless loop

DC - W01

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IC - H04L-011/00 H04L-012/24

AB - DE3840570 A
The data transmission system has a data transmission unit in each station and connected to similar units in the other stations and forming a number of loops. Programmable controls have data links via the data transmission units. A device detects a fault in any lugs performing data transmission and produces a detection signal.
A second device lies between the data transmission units and the programmable controls and uses the detection signal to select a data transmission unit in a non-faulty loop. The first device is located in each data transmission unit and is a RAM. Each station may have two data transmission units.
USE/ADVANTAGE - Control can send data even if any one station has faulty data transmission unit. (0/4)

DEAB - DE3840570 C
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Search statement 2